

Applicant : Manuel Vega, et. al
Serial No. : 10/022,390
Filed : December 17, 2001
Election and Preliminary Amendment

Attorney's Docket No.: 37851-912
(17109-003001)

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

Please replace the paragraphs at page 31, lines 11-27 with the following amended paragraph:

The experiments identified a number of heretofore unknown mutation loci, which include the hits at positions: 4, 20, 22, 28, 32, 38, 39, 54, 59, 124, 125, 127, 132, 140, 161, 163, 193, 196, 197, 221, 228, 231, 234, 258, 260, 263, 264, 334, 335, 341, 342, 347, 350, 354, 363, 364, 367, 370, 376, 381, 389, 407, 411, 414, 420, 421, 422, 428, 429, 438, 440, 451, 460, 462, 484, 488, 495, 497, 498, 499, 503, 511, 512, 516, 517 and 518 with reference to the amino acids in Rep78 and Rep 68. Rep 78 is encoded by nucleotides 321-2,186; Rep 68 is encoded by nucleotides 321-1906 and 2228-2252; Rep 52 is encoded by nucleotides 993-2186, and Rep 40 is encoded by ~~amino acids~~ nucleotides 993-1906 and 2228-2252 of wildtype AAV.

Also among these are mutations that may have multiple effects. Since the Rep coding region is quite complex, some of the mutations have several effects. Amino acids 542, 598, 600 and 601, which are in the ~~to the~~ Rep 68 and 40 intron region, are also in the coding region of Rep 78 and 52. Codon 630 is in the coding region of Rep 68 and 40 and non coding region of Rep 78 and 52.